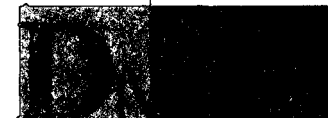


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IMAGERY

ANALYSIS

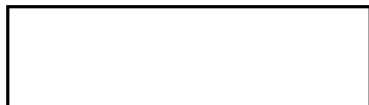


STAFF

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

STATUS OF NORTH VIETNAMESE RAILROADS



DECLASS REVIEW by NIMA/DOD

REPORT NO. 38

CIA/PIR 75114

DATE MAY 1967

GROUP 1
Excluded from automatic
downgrading and declassification

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W A R N I N G

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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PIR 75114

DDI IMAGERY ANALYSIS STAFF

PREFACE

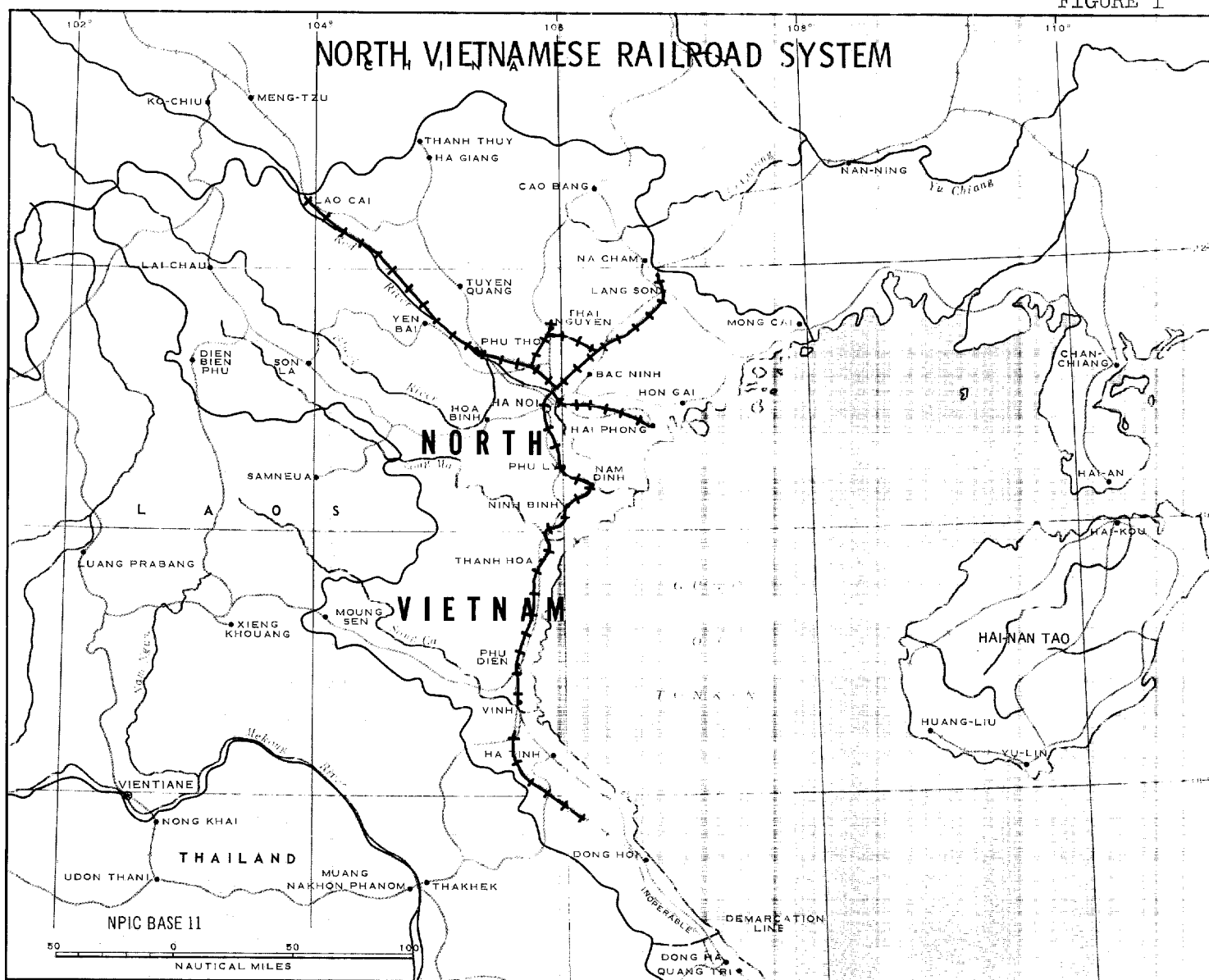
This report summarizes significant items of photo intelligence relating to the North Vietnamese railroad system which has been developed from available photography (received by the CIA Imagery Analysis Staff) during the period indicated on the cover. This report is intended to provide a comprehensive view of the railroad system and does not necessarily reflect the most recent status changes as reported by pilots' reports or field photo intelligence cables.

The railroad system has been divided into 5 major lines: the Hanoi/Lao Cai Line, the Hanoi/Dong Dang Line, the Hanoi/Haiphong Line, the Hanoi/Dong Hoi Line and the Thai Nguyen Line (Figure I). Annotated maps and photos are used to show the status of each line.

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PIR 75114 25X1
FIGURE 1



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SUMMARY

Two bridge interdictions were noted on the Hanoi/Dong Hoi Rail Line. That portion of the Hanoi/Dong Dang Rail Line covered by interpretable photography was open to through traffic.

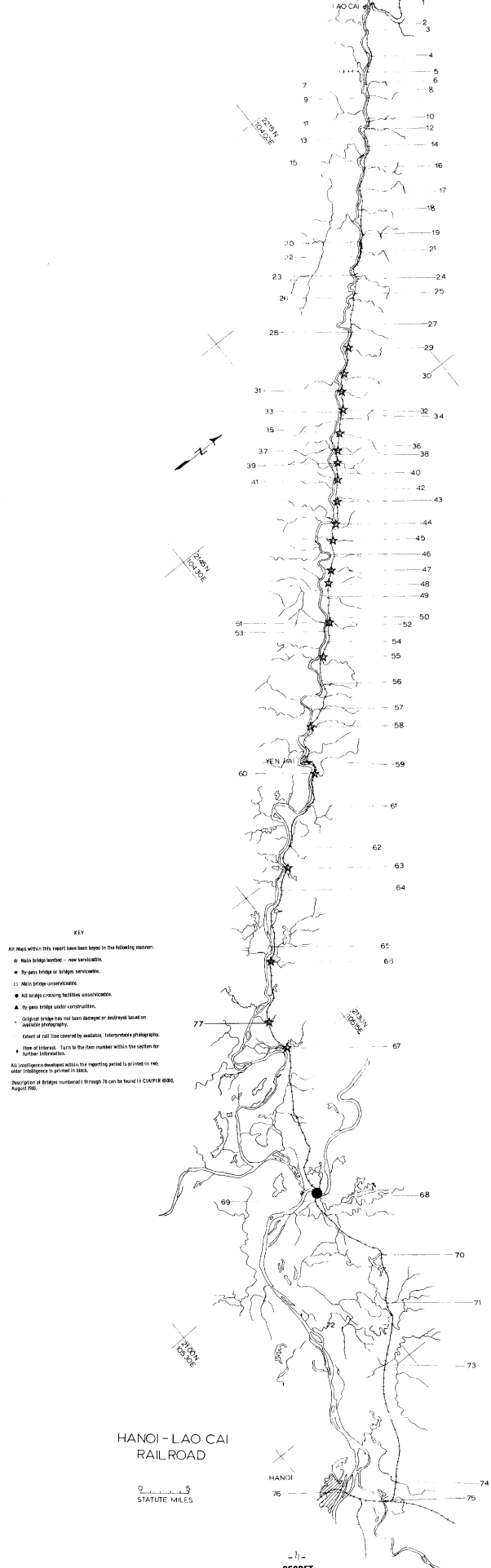
CONTENTS

Hanoi/Lao Cai Rail Line	Page 4
Hanoi/Dong Dang Rail Line	6
Hanoi/Dong Hoi Rail Line	9
Hanoi/Haiphong Rail Line	21
Thai Nguyen Rail Line	22

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PIR 751114
FIGURE 2

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DDI IMAGERY ANALYSIS STAFF

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STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES
HANOI/LAO CAI RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
30	Lang Thip Railroad Bridge over Ngoi Thip [REDACTED]	[REDACTED]	S
32	Lang Kay Railroad Bridge NW over Ngoi Key [REDACTED]		S
35	Lang Kay Railroad Bridge over Ngoi Chuc [REDACTED]		S
37	Lang Kay Railroad Bridge S over Nam Linh [REDACTED]		S
39	Lang Khay Railroad Bridge over Ngoi Kay [REDACTED]		S
41	Khe Se Railroad Bridge S over stream [REDACTED]		S
43	Trai Hut Railroad Bridge NW over Ngoi Cho [REDACTED]		S
44	Trai Hut Railroad Bridge over Nam Lam [REDACTED]		S
45	Som Dong Dep Railroad Bridge over Nam Muoi [REDACTED]		S
47	Lang Quach Ngoai Railroad Bridge N over Ngoi Vai [REDACTED]		S
48	Lang Quach Ngoai Railroad Bridge over Ngoi Quach [REDACTED]		S
51	Pho Chang Railroad Bridge over Ngoi Trang [REDACTED]		S
55	Pho Hop Railroad Bridge over Ngoi Hop [REDACTED]	S	
67	Phu Tho Railroad Bridge E over stream [REDACTED]	S	

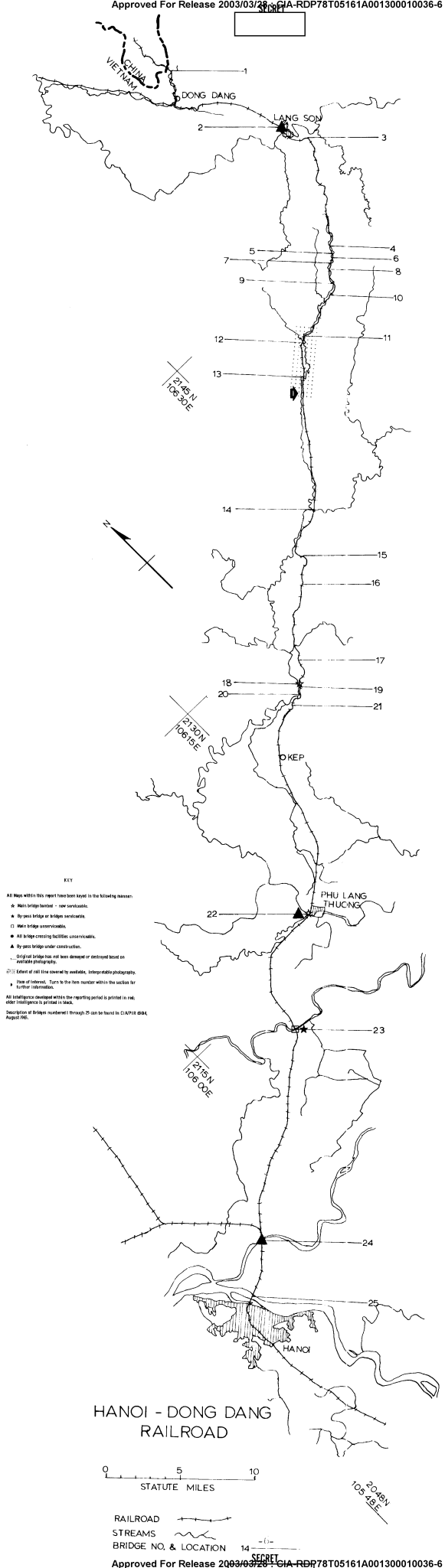
25X1

* All data is compiled from photography dated [REDACTED] or thereafter.
Symbols: S - serviceable, U - unserviceable

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DDI IMAGERY ANALYSIS STAFF

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STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES
HANOI/DONG DANG RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
14	Cao Nung Railroad Bridge over Song Hoa [REDACTED]	[REDACTED]	S
14	Cao Nung Railroad Bridge E over Song Hoa [REDACTED]		S
22	Bac Giang Railroad and Highway Bridge over Song Thuong [REDACTED]		S
23	Dap Cau Railroad and Highway Bridge over Song Cau [REDACTED]		U
23	Dap Cau Railroad Bridge over Song Cau [REDACTED]		S

25X1

* All data is compiled from photography dated [REDACTED] or thereafter.
Symbols: S - serviceable, U - unserviceable

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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 1: Hanoi/Dong Dang Rail Line

NAME : Construction

BE : NA

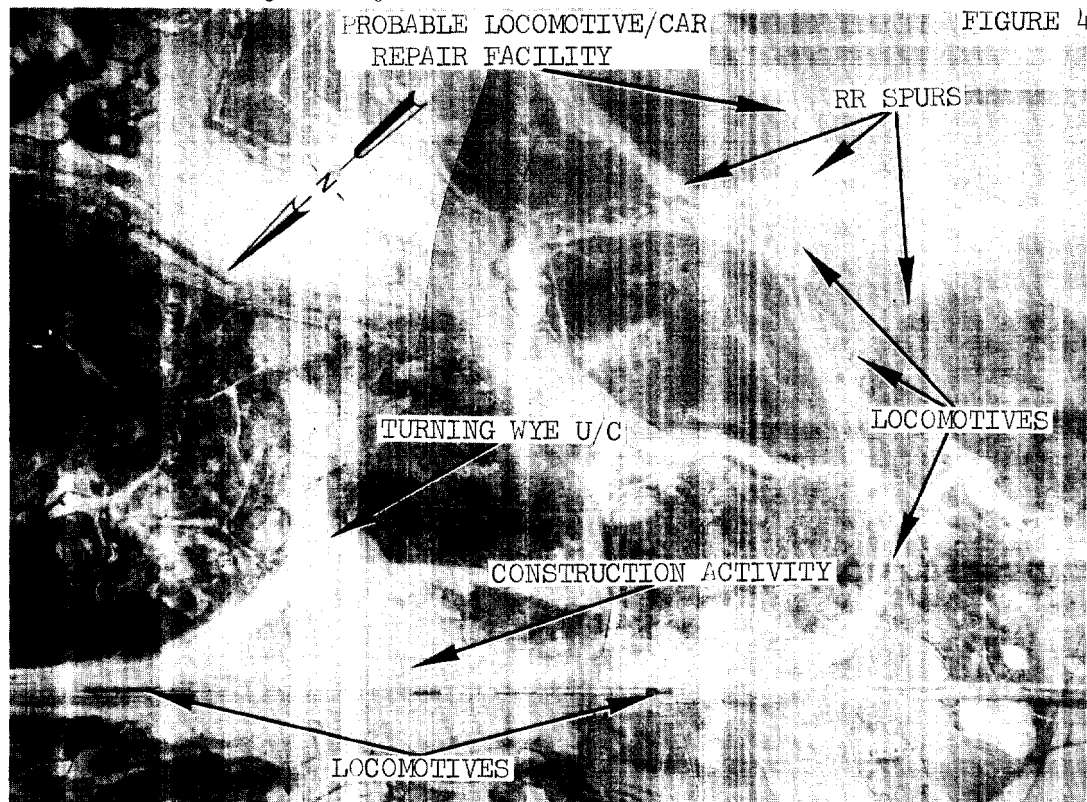
COORDINATES : 21 39N - 106 35W

PHOTO REFERENCE :

MAP REFERENCE : JOG (A) 1501, NF 48-12

25X1

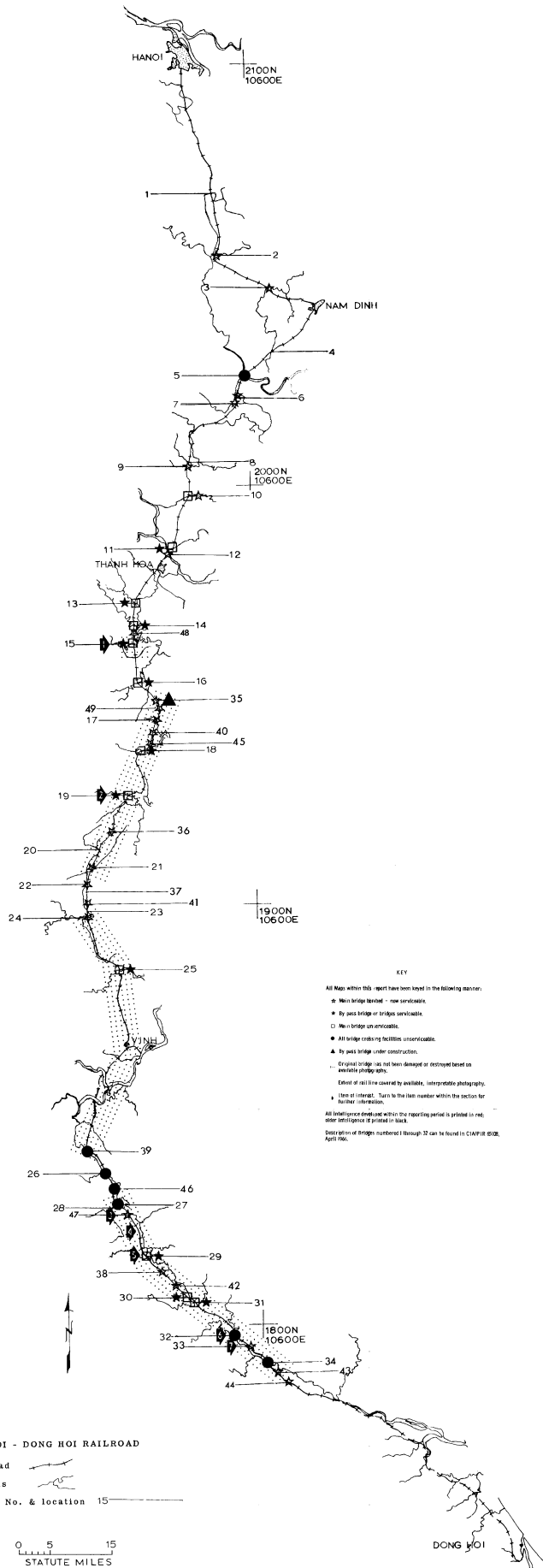
A new probable turning wye is under construction at UTM XJ638948 and the existing 4-track railroad yard adjacent to this turning wye is probably in the process of being expanded. In the same area, a new serviceable railroad spur leaves the main track at UTM XJ636947 and subsequently branches into 3 separate spurs which wind among the adjacent hills. One of these spurs terminates at a probable locomotive/car repair facility at UTM XJ644937. Three locomotives, approximately 10 pieces of rolling stock, and considerable quantities of supplies are located on and adjacent to these spur tracks. In addition, 2 locomotives and approximately 40 pieces of rolling stock are observed in the adjacent yard.



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FIR 75114
FIGURE 5



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DDI IMAGERY ANALYSIS STAFF

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STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES
HANOI/DONG HOI RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	3 Cao Duong Railroad and Highway Bridge over canal [REDACTED]	[REDACTED]	S
25X1	5 Ninh Binh Railroad and Highway Bridge over Song Day [REDACTED]		U
25X1	5 Ninh Binh Railroad Bridge over Song Day [REDACTED]		U
	5 Ninh Binh Railroad Pontoon Bridge		U
25X1	6 Ha Thon Railroad and Highway Bridge over Song Vac [REDACTED]		S
25X1	7 Ly Nhan Railroad and Highway Bridge over stream [REDACTED]		S
25X1	9 Yen Xa Railroad and Highway Bridge over stream [REDACTED]		S
25X1	10 Dong Phong Thuong Railroad and Highway Bridge over Song Len [REDACTED]		U
25X1	10 Dong Phong Thuong Railroad Bridge S over Song Len [REDACTED]		U
25X1	10 Dong Phong Thuong E Railroad By-Pass Bridge [REDACTED]		S
25X1	11 Phuong Dinh Railroad and Highway Bridge over Lach Truong [REDACTED]		U
25X1	11 Phuong Dinh Railroad Bridge over Lach Truong [REDACTED]		S
25X1	12 Thanh Hoa Railroad and Highway Bridge over Song Ma [REDACTED]		S
25X1	13 Thien Linh Dong Railroad Bridge over Hoang Giang [REDACTED]	U	

25X1

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DDI IMAGERY ANALYSIS STAFF

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<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
13 Thien Linh Dong Railroad Bridge SW over River [REDACTED]	[REDACTED]	U
13 Thien Linh Dong Railroad Bridge W over Hoang Giang [REDACTED]		S
14 Thinh Lac Railroad Bridge over stream [REDACTED]		U
14 Thinh Lac Railroad Bridge SSW over stream [REDACTED]		S
15 Truong Quang Tien Railroad Bridge over Song Yen Tr [REDACTED]		U
15 Truong Quang Tien Railroad Bridge E over River [REDACTED]		S
16 Thi Long Railroad Bridge over Suoi Cay Gang [REDACTED]		U
16 Thi Long Railroad Bridge SW over Suoi Cay Gang [REDACTED]		S
17 Phu Quat Railroad Bridge over stream [REDACTED]		S
18 Dia Thuy Railroad Bridge SW over Khe Dua [REDACTED]		U
18 Dia Thuy Railroad Bridge NW over Khe Dua [REDACTED]		S
19 Qui Vinh Railroad Bridge No. 1 over Song Hoang Mai [REDACTED]		U
19 Qui Vinh Railroad Bridge No. 2 over Song Hoang Mai [REDACTED]		U
19 Qui Vinh Railroad Bridge No. 3 over Song Hoang Mai [REDACTED]		U
19 Qui Vinh Railroad Bridge No. 4 over Song Hoang Mai [REDACTED]		S
21 Long Ngoc Railroad and Highway Bridge over unknown barrier [REDACTED]		S

25X1

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25X1

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[REDACTED]

25X1

DDI IMAGERY ANALYSIS STAFF

PIR 75114

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
22	Dong Khe Railroad Bridge over stream [REDACTED]	[REDACTED]	S
23	Dien Chau Railroad Bridge over Song Bang [REDACTED]		U
23	Dien Chau Railroad Bridge E over Song Bang [REDACTED]		S
24	Da Phuc Railroad Bridge over Inter- mittent Waterway [REDACTED]		S
25	Tam Da Railroad and Highway Bridge over Song Cua Lo [REDACTED]		U
25	Tam Da Railroad By-Pass Bridge		S
26	Trai Hoi Railroad and Highway Bridge over Ngan Sau [REDACTED]		U
27	Xom Hoai Railroad and Highway Bridge over Rao No [REDACTED]		U
29	Dong Bai Railroad Bridge over Song Tien [REDACTED]		U
29	Dong Bai Railroad By-Pass Bridge N over Song Tien [REDACTED]		S
30	La Khe Thon Railroad Bridge over Song Tien [REDACTED]		U
30	La Khe Thon Highway Bridge over Song Tien [REDACTED]		S
31	Bai Duc Thon Railroad Bridge over Khe Ba Giang [REDACTED]		U
31	Bai Duc Thon Railroad Bridge S over Khe Ba Giang [REDACTED]		S
32	Xom Khe Railroad Bridge over Khe Net [REDACTED]		U
32	Xom Khe Railroad Bridge By-Pass over Khe Net	U	

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[REDACTED]

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DDI IMAGERY ANALYSIS STAFF

PIR 75114

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	33 Kim Lu Xa Railroad Bridge over Khe Danh [REDACTED]	[REDACTED]	S 25X1
25X1	35 Thi Long Railroad Bridge SE over stream [REDACTED]		S
	35 Thi Long Railroad Bridge S By-Pass		S
25X1	36 Tho Trang Railroad Bridge over stream [REDACTED]		S
25X1	38 Phuc Trach Railroad Bridge over Khe An [REDACTED]		S
25X1	39 Quang Te Railroad Bridge over Khe Huc Giang [REDACTED]		U
25X1	40 Qui My Railroad Bridge over stream [REDACTED]		S
	41 Tu My Railroad Bridge		S
	42 Trai Tran Xom Railroad Bridge		S
25X1	43 Dong Ca Thon Railroad and Highway Bridge over Cai Khe [REDACTED]		S
25X1	44 Kieu Moc Phuong Railroad Bridge W [REDACTED]		S
25X1	45 Phu Cu Railroad Bridge N over stream [REDACTED]		U
	45 Phu Cu Railroad By-Pass Bridge		S
25X1	47 Yen Hoi Ha Railroad Bridge over Highway [REDACTED]	S	
25X1	48 Sai Thon Railroad Bridge N over stream [REDACTED]	S	
25X1	49 Nap Bung Railroad Bridge over stream [REDACTED]	S	

* All data is compiled from photography dated [REDACTED] or thereafter. 25X1

Symbols: S - serviceable, U - unserviceable

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DDI IMAGERY ANALYSIS STAFF

PIR 75114

ITEM OF INTEREST NO. 1: Hanoi/Dong Hoi Rail Line

NAME : Trong Quang Tien RR. Bridge

BE 25X1

:

COORDINATES : 19 37N - 105 42E, WG740696

PHOTO REFERENCE

:

MAP REFERENCE

: JOG (A) 1501, NE 48-3

25X1

Three spans of the 6-span, deck-beam Truong Quang Tien Railroad Bridge have been dropped. The by-pass bridge remains serviceable.

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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 2: Hanoi/Dong Hoi Rail Line

NAME : Qui Vinh RR. Bridge No. 2

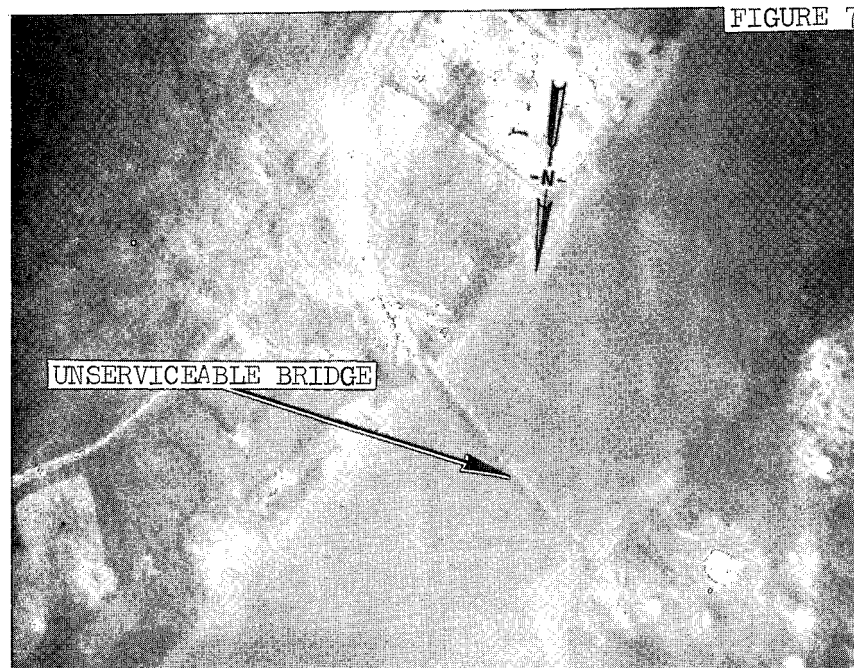
BE :

COORDINATES : 19 15N - 105 41E, WG724298

PHOTO REFERENCE :

MAP REFERENCE : JOG (A) 1501, NE 48-3

Six spans of the Qui Vinh Railroad Bridge No. 2 have been dropped and 1 pier has probably been destroyed. One by-pass bridge remains serviceable at this river crossing.



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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 3: Hanoi/Dong Hoi Rail Line

NAME : Yen Hoi Ha RR. Bridge

BE 25X1

: [REDACTED]

COORDINATES : 18 15N - 105 40E, WF716187

PHOTO REFERENCE

: [REDACTED]

25X1

MAP REFERENCE : JOG (A) 1501, NE 48-7

The 3-span, deck-beam Yen Hoi Ha Railroad Bridge has been repaired and is serviceable.



FIGURE 8

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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 4: Hanoi/Dong Hoi Rail Line

NAME : Camouflaged Sidings

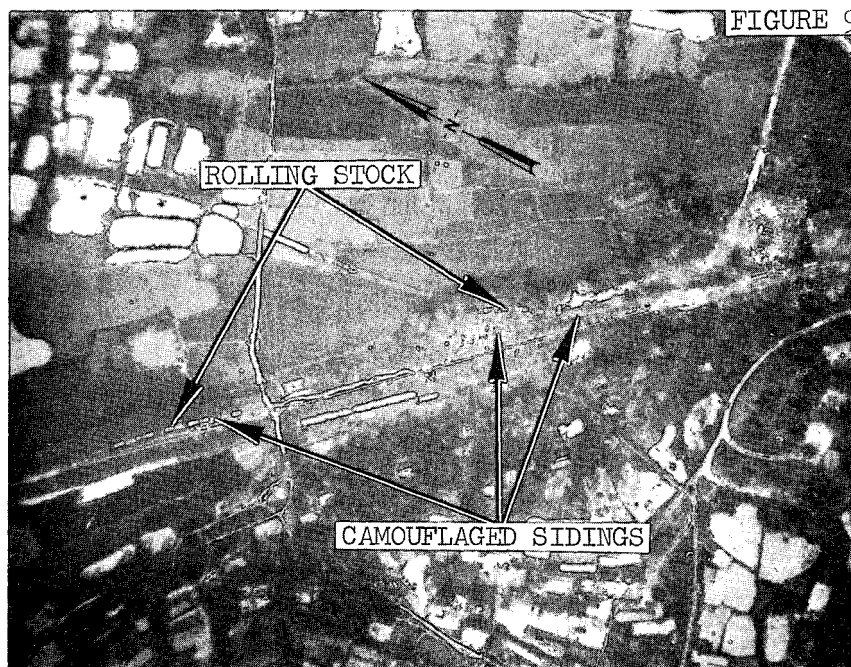
BE : NA

COORDINATES : 18 14N - 105 43E

PHOTO REFERENCE : 25X1

MAP REFERENCE : JOG (A) 1501, NE 48-7

Four partially camouflaged sidings were observed at UTM WF735157. At least 14 probable 2-axle flat cars and/or converted trucks used as locomotives are observed on the tracks. This area is apparently being used to store rolling stock used on this portion of the rail line.

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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 5: Hanoi/Dong Hoi Rail Line

NAME : Dong Bai RR. By-Pass Bridge No. 2

BE : NA

COORDINATES : 18 09N - 105 43E, WF762081

PHOTO REFERENCE :

[REDACTED]

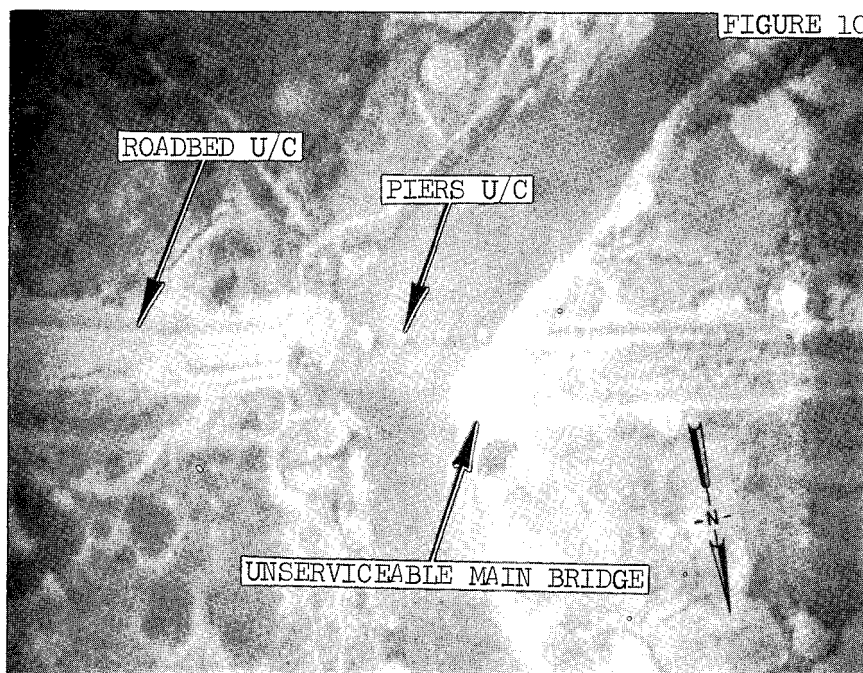
25X1

MAP REFERENCE : JOG (A) 1501, NE 48-7

25X1

A new by-pass bridge is under construction adjacent to the unserviceable main bridge [REDACTED] at Dong Bai. A previously constructed by-pass bridge [REDACTED] remains serviceable (not illustrated).

25X1



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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 6: Hanoi/Dong Hoi Rail Line

NAME : Xom Khe RR. By-Pass Bridge No. 1

BE : NA

COORDINATES : 17 58N - 105 56E, WF985982

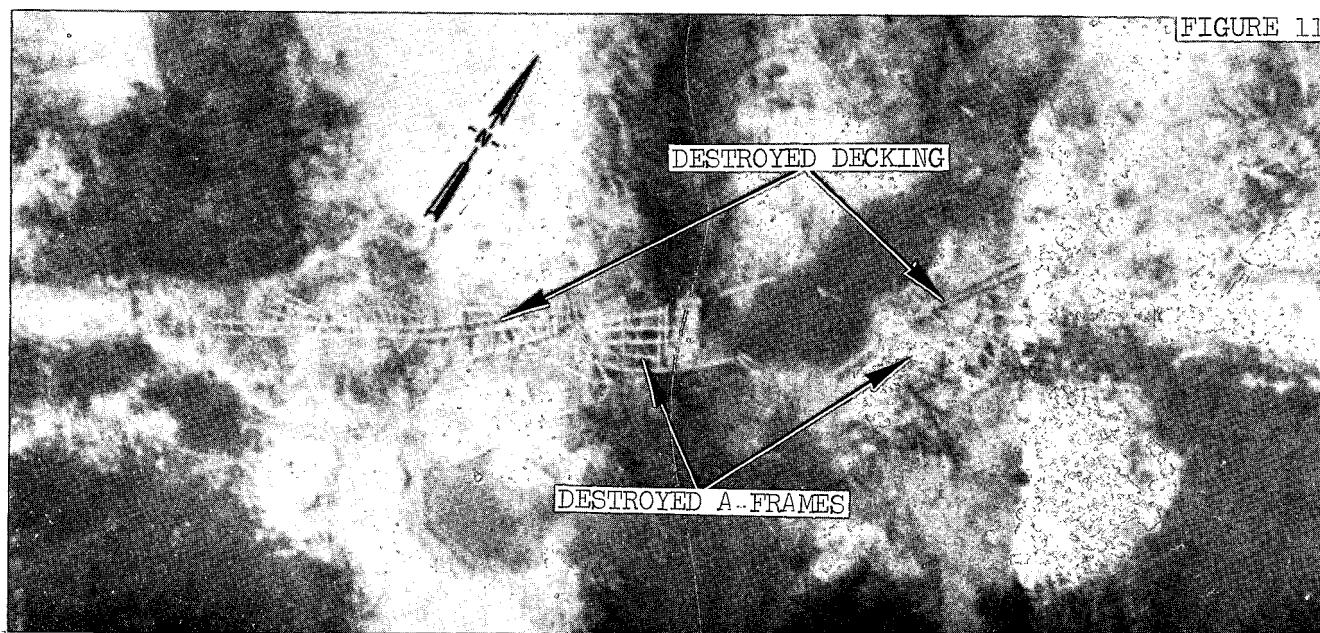
PHOTO REFERENCE :

MAP REFERENCE : JOG (A) 1501, NE 48-11

25X1

The Xom Khe Railroad By-Pass Bridge No. 1 has been completely destroyed. The main bridge [REDACTED] remains unserviceable, although shuttling continues. A new by-pass bridge is currently under construction to the south of the main bridge (not illustrated).

25X1

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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 7: Hanoi/Dong Hoi Rail Line

NAME : Kim Lu Xa RR. By-Pass Bridge

BE : NA

COORDINATES : 17 57N - 105 57E, XE023851

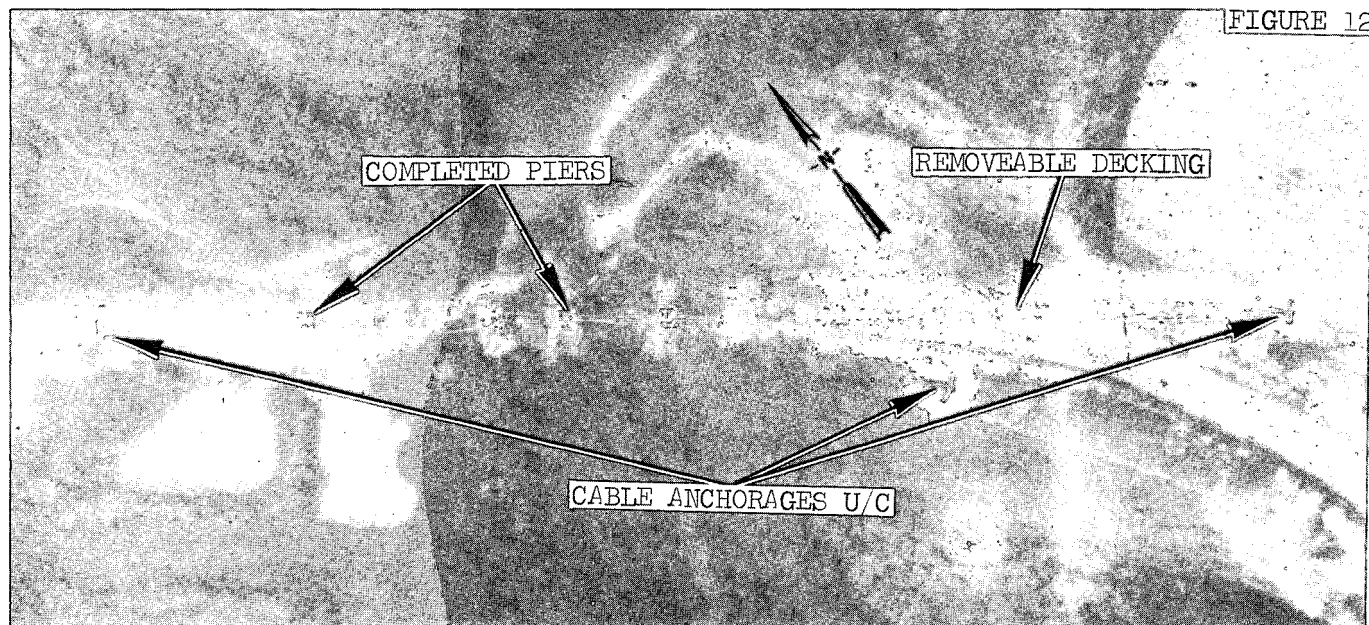
PHOTO REFERENCE :

25X1

MAP REFERENCE : JOG (A) 1501, NE 48-11

The removeable deck-beam Kim Lu Xa Railroad By-Pass Bridge is nearing completion. Rail is present on both approaches, although none has been laid on the completed decking. The cable anchorages appear to be in the final stages of construction. The main bridge remains serviceable.

25X1

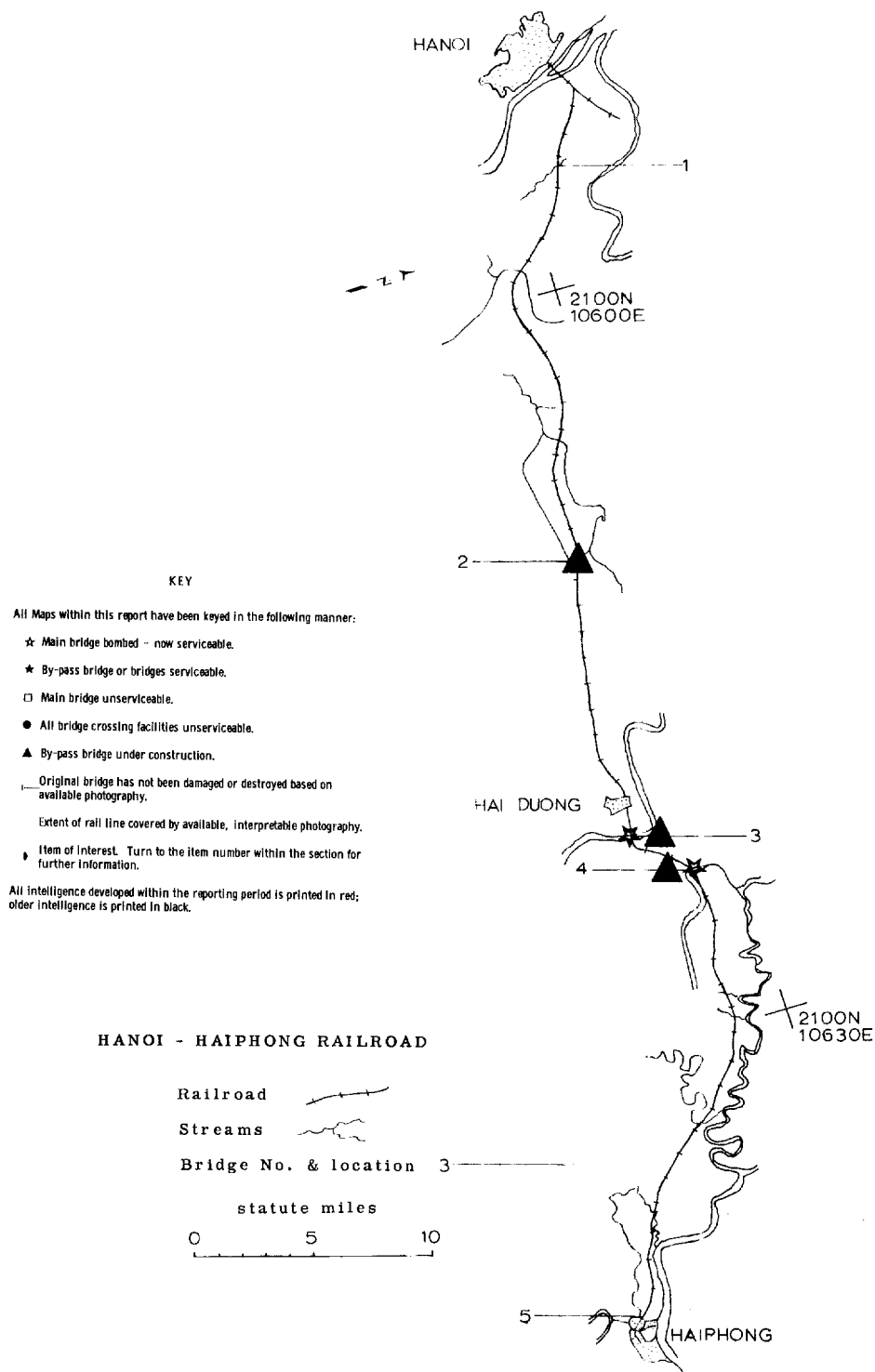
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PIR 75114
FIGURE 13



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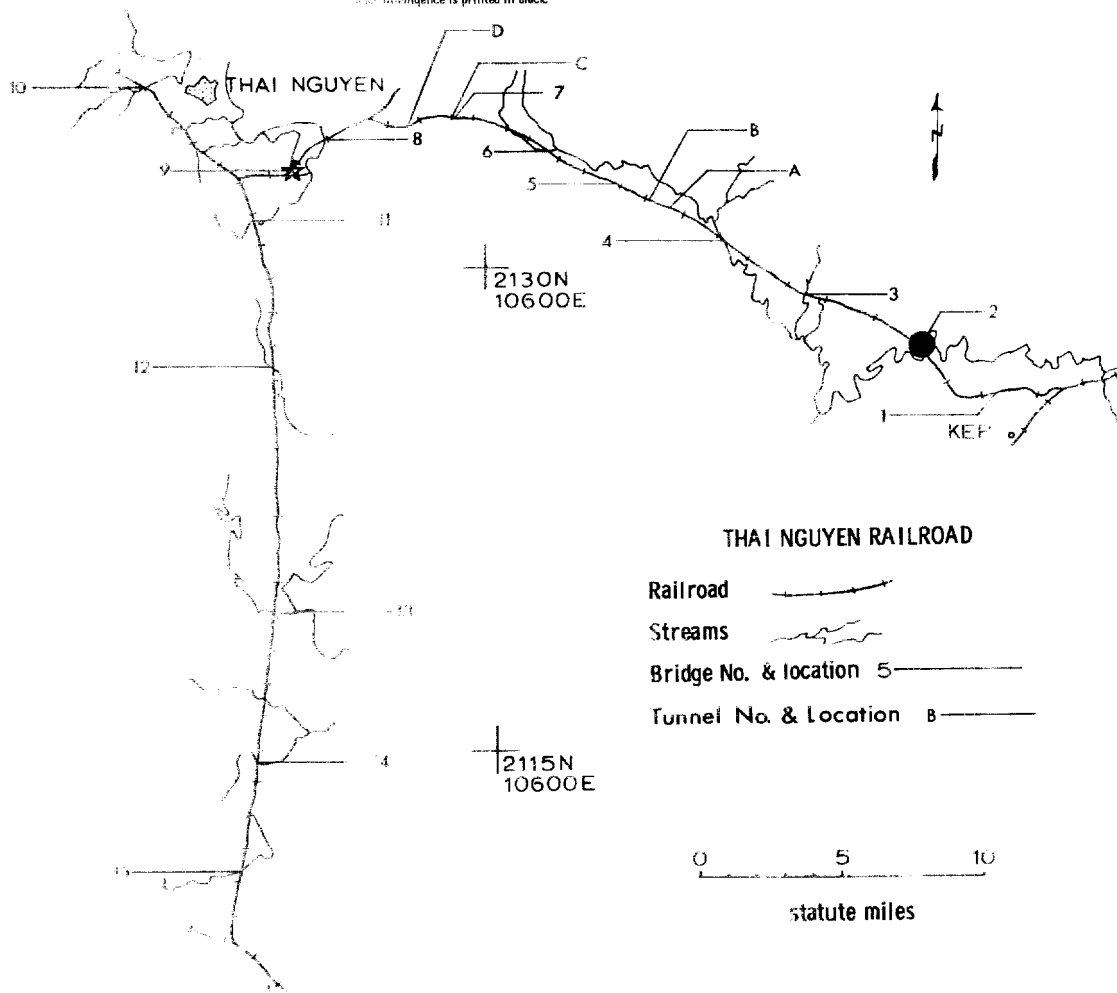
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PLR 75114
FIGURE 14

All items within this report have been keyed in the following manner:

- 1. Station bridge bombed - now serviceable.
- 2. Station bridge or bridges serviceable.
- 3. Station bridge unserviceable.
- 4. All bridge crossing facilities unserviceable.
- 5. Temporary bridge under construction.
- 6. Original bridge has not been damaged or destroyed based on available photography.
- 7. Segment of rail line covered by available, interpretable photography.
- 8. Point of interest. Turn to the item number within the section for further information.
- 9. Intelligence developed within the reporting period is printed in red; other intelligence is printed in black.



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[REDACTED]

25X1

DDI IMAGERY ANALYSIS STAFF

PIR 75114

STATUS OF BRIDGES PREVIOUSLY DAMAGED/DESTROYED
THAI NGUYEN RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	2 Dong Muc Railroad Bridge over Song Thuong [REDACTED]	[REDACTED]	U
25X1	9 Lang Lau Railroad Bridge over Song Cau [REDACTED]	[REDACTED]	S

25X1

* All data is compiled from photography dated [REDACTED] or thereafter.
Symbols: S - serviceable, U - unserviceable

25X1

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[REDACTED]

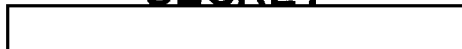
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Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010036-6

Approved For Release 2003/03/28 : CIA-RDP78T05161A001300010036-6